

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 04-114004 (71)Applicant : TOYOTA MOTOR CORP
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(54) DEVICE FOR SETTING PRESS WORKING CONDITION OF PRESS MACHINE

(57)Abstract:

PURPOSE: To automatically set the press working condition of the press machine corresponding to a die to be used.

CONSTITUTION: As to die information, a blank holding load F_{so} stored in an ID card 96, the weight W_r of a blank holding ring 30, and the using number (n) of cushion pins 24 are read in, and as to machine information, the weight W_a of a cushion pad 28 preliminarily stored, the weight W_p of the cushion pin 24 and the pressure receiving area A_a of an air cylinder 42 are used to calculate an air pressure P_{ax} following the equation, shown below, and an ON-OFF suction and exhaust valve 46 is switched and controlled so that the air pressure P_a inside an air tank 44 required as the press working condition becomes the air pressure P_{ax} . $P_{ax} = (F_{so} + W_a + W_r + n \cdot W_p) / A_a$.

